

# Contrasting global, regional and local patterns of genetic structure in gray reef shark populations from the Indo-Pacific region

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Table S1. Details of sampling locations

Ocean	Country/Archipelago	Date	Locality	N	
Indian	Mozambique Channel	2009	Zélee Bank	7	
			Juan de Nova	26	
Pacific	Chesterfield	Nov. 2011	Chesterfield	12	
			Bampton	13	
			Passage islet	2	
			Avon isles	7	
			New Caledonia	March 2010	Belep
	New Caledonia	July 2010	Poindimié	5	
		Eastern Australia	2010	Osprey Reef	21
	Society	2015	Moorea	9	
		April 2017	Tahiti	5	
	Tuamotu	2007	Nengo	6	
		2007	Faaite	5	
		June 2011	Fakarava	19	
		2014	Tapoto	2	
		March 2017	Tikehau	7	
		March 2017	Apataki	25	
		Feb 2016	Faaite	5	
		March 2009	Acteon	5	
		Line Islands	2017	Palmyra	50
				Birnie	17
	Enderbury			21	
Kanton	27				
Manra	2				
Phoenix	July 2014/Sept 2015	McKean	24		
		Niku	44		
		Orona	12		
		Rawaki	11		
		Winslow	6		
Tuvalu	2014			4	

Table S2. Pairwise  $F_{ST}$  comparisons between islands of the Phoenix archipelago. The number of specimens analyzed are indicated between brackets. Significance of P-values: \* $>0.05$ ; \*\* $>0.01$

$F_{ST}$	Enderbury (21)	Kanton (27)	Manra (2)	McKean (24)	Niku (44)	Orona (12)	Rawaki (11)	Winslow (6)
Birnie (17)	0.00117	-0.00330	-0.01625	-0.00038	0.00337	0.00389	0.01259*	-0.00573
Enderbury (21)		0.00098	0.01457	0.00361	0.00206	-0.00196	0.01694**	-0.00491
Kanton (27)			0.00252	0.00242	-0.00307	-0.00766	0.00878	-0.00616
Manra (2)				0.02727	0.01045	0.02078	0.01516	-0.02299
McKean (24)					0.00332	0.00578	0.01636**	0.00515
Niku (44)						-0.00328	0.00982*	-0.00736
Orona (12)							0.00827	-0.00330
Rawaki (11)								0.00472

Table S3. Pairwise  $F_{ST}$  comparisons for French Polynesia islands. The number of specimens analyzed are indicated between brackets. Significance of P-values:  $* > 0.05$

$F_{ST}$	Faaite (10)	Acteon (4)	Nengo (4)	Moorea (9)	Tahiti (5)	Tikehau (7)	Fakarava (20)	Nord (4)
Apataki (25)	0.01354*	-0.00057	0.00798	0.00793	-0.00473	0.00231	0.00738	0.00492
Faaite (10)		0.02242	-0.00031	0.01792	-0.00233	0.03257	0.01776 *	0.00612
Acteon (4)			-0.00343	-0.01862	-0.00127	0.01907	0.00689	0.00884
Nengo (4)				0.00612	-0.00089	0.03600	0.00704	-0.01912
Moorea (9)					-0.00053	0.02415	0.00568	0.00642
Tahiti (5)						0.00845	0.02111	-0.00920
Tikehau (7)							0.01518	0.02004
Fakarava (20)								-0.00300